

Use Attainability Analysis

for

WBID 0276 Brush Creek

Submitted by
SES Inc.

to

Missouri Department of Natural Resources
Water Protection Program

Date received: November 14, 2007

Field Data Sheets for Recreation Use Stream Surveys

Data Sheet A - Water Body Identification

I. Water Body Information (For water body being surveyed)

Water Body Name (from USGS 7.5' quad):	Brush Creek		
Missouri Water Body Identification (WBID) Number:	276		
8 digit HUC code:	10240011	County:	Platte
Upstream Legal Description (from Table H):	T51N	R34W	Sec8
Downstream Legal Description (from Table H):	T51N	R34W	Sec31
Number of sites evaluated:	5		
List all site numbers, listed consequently upstream to downstream: 1, 2, 3, 4, 5			

Site Locations Map(s): Attach a map of the entire segment with assessment sites clearly labeled.
Mark any other items that may be of interest.

II. Facility Information (list all permitted discharges to the water body segment)

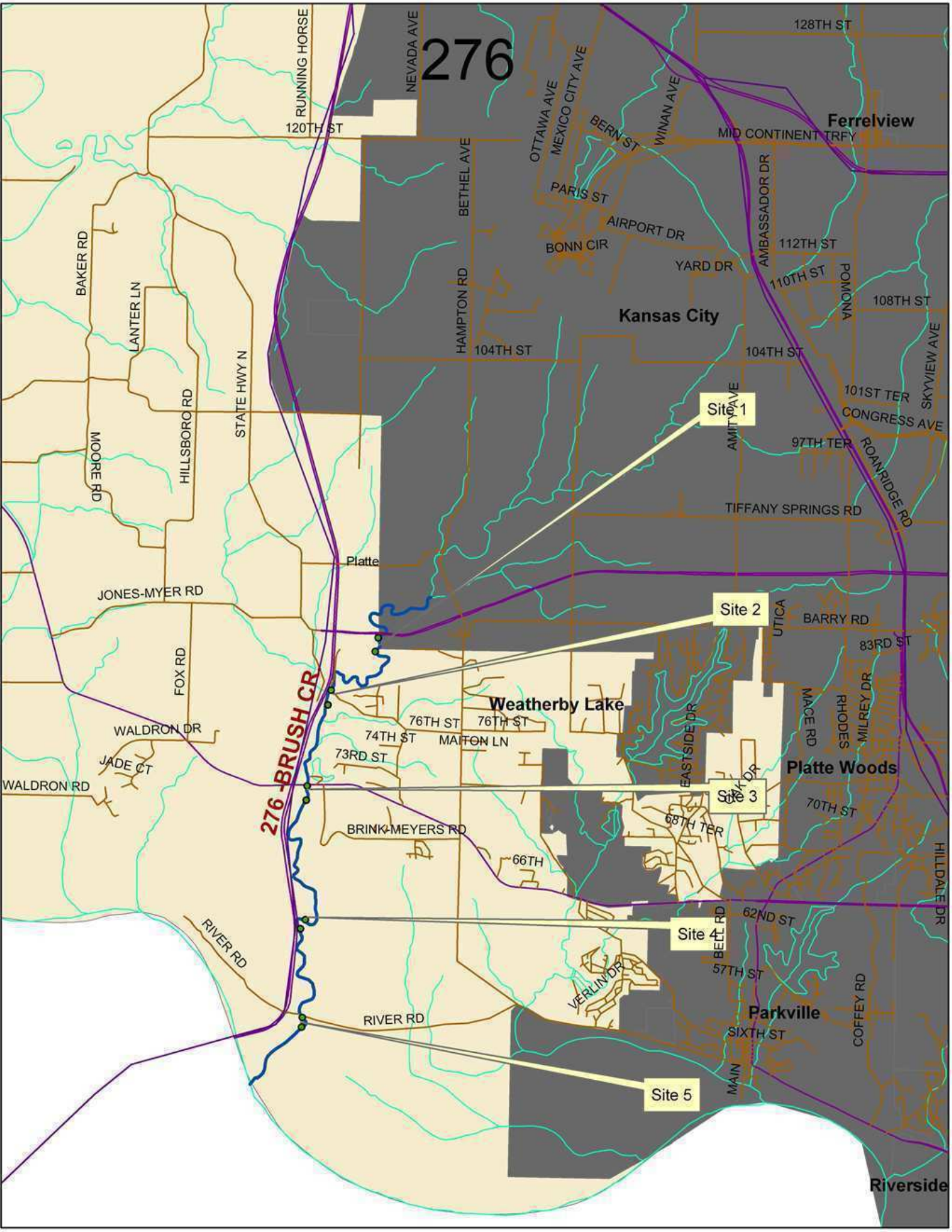
Facility Name(s) and Permit Number(s): Platte County Regional SE MO 0119474

III. UAA Surveyor (please print legibly)

Name of Surveyor:	Gilisa Gould	Telephone Number:	913.307.0054
Organization/Employer:	SES, Inc.		

Please verify that you have completed all sections, checked all applicable boxes, and that the form is complete.

Signed: gilisa gould **Date:** 11.01.07



WBID # 276
 Site # 1

Field Data Sheets For Recreational Use Stream Surveys

Data Sheet B-Site Characterization

Date & Time: 10.23.07	9:00	Site Location Description (e.g. road crossing):
Personnel: Larissa Brown and Gilisa Gould		Hwy 152
Current Weather Conditions: clear		Facility Name: Platte County Regional SE
Weather conditions for the past 10 days: 4.65 inches		Permit Number: MO 0119474
Drought conditions?: No drought <input checked="" type="checkbox"/> ; Phase I <input type="checkbox"/> ; Phase II <input type="checkbox"/> ; Phase III <input type="checkbox"/> ; Phase IV <input type="checkbox"/> ; Unknown <input type="checkbox"/>		

Site Location:

Location Coordinates (Universal Transverse Mercator Projection, in Meters)					
Site 01	Easting (UTM X):	Northing (UTM Y):	Horizontal Accuracy:	Meters	
	0349178	4345381		6.4	
Site 11	Easting (UTM X):	Northing (UTM Y):	Horizontal Accuracy:	Meters	
	0349131	4345182		6.4	

Photos:

Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
1	downstream, T1	2	upstream, T1	3	downstream, T11
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
4	upstream, T11				
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose

Uses Observed:

<input type="checkbox"/> Swimming	<input type="checkbox"/> Skin diving	<input type="checkbox"/> SCUBA diving	<input type="checkbox"/> Tubing	<input type="checkbox"/> Water Skiing
<input type="checkbox"/> Wind surfing	<input type="checkbox"/> Kayaking	<input type="checkbox"/> Boating	<input type="checkbox"/> Wading	<input type="checkbox"/> Rafting
<input type="checkbox"/> Hunting	<input type="checkbox"/> Trapping	<input type="checkbox"/> Fishing	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:
Describe:				

WBID # 276
Site # 1

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B- Site Characterization (Continued)

Surrounding Conditions:

<input type="checkbox"/> City/County parks	<input type="checkbox"/> playgrounds	<input type="checkbox"/> MDC conservation lands	<input type="checkbox"/> Urban areas	<input type="checkbox"/> Rural Residential
<input type="checkbox"/> Campgrounds	<input type="checkbox"/> State parks	<input type="checkbox"/> National Forests	<input type="checkbox"/> Nature trails	<input type="checkbox"/> Stairs/walkways
<input type="checkbox"/> Boating accesses	<input type="checkbox"/> Fence	<input type="checkbox"/> No trespass sign	<input type="checkbox"/> Steep Slopes	<input type="checkbox"/> Other:
Comments: none				

Evidence of Human Use:

<input checked="" type="checkbox"/> Roads	<input type="checkbox"/> Foot path/prints	<input type="checkbox"/> Dock/platform	<input type="checkbox"/> Camping Sites	<input type="checkbox"/> Rope swings
<input type="checkbox"/> RV/ATV Tracks	<input type="checkbox"/> Fire pit/ring	<input type="checkbox"/> NPDES Discharge	<input type="checkbox"/> Fishing Tackle	<input type="checkbox"/> Livestock watering
comments/other: none				

Substrate:

% Cobble	% Gravel	% Sand	% Silt	% Mud/Clay	% Bedrock
40	20	40			

Aquatic Vegetation:

none

Water Characteristics:

Odor:	<input type="checkbox"/> Sewage	<input type="checkbox"/> Musky	<input type="checkbox"/> Chemical	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Color:	<input type="checkbox"/> Clear	<input type="checkbox"/> Green	<input type="checkbox"/> Gray	<input type="checkbox"/> Milky	<input checked="" type="checkbox"/> Other:
					brown
Bottom Deposit:	<input type="checkbox"/> Sludge	<input type="checkbox"/> Solids	<input type="checkbox"/> Fine sediments	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Surface Deposit:	<input type="checkbox"/> Oil	<input type="checkbox"/> Scum	<input type="checkbox"/> Foam	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:

WBID # 276
Site # 1

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization (continued)

Additional Stream Morphology: (Record isolated pools or other features identified during the survey that may support recreational uses)

Channel Feature	Distance from access location (m)	Width (m)	Length (m)	Median Depth (m)	Max Depth (m)

Comments: (Please record any additional comments here.)

none

Please verify that you have completed all sections, checked all applicable boxes, and that the form is complete.

Surveyor's Signature: Gilisa Gould Date of Survey: 10.23.07

Organization: SES, Inc Position: Field Team Leader

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet C - Field Survey Results

Waterbody ID: <u>276</u> Site #: <u>1</u> Estimated Channel Incision: <u>2.0</u> (m) (height between low bank width and water) GPS Location - Easting (UTM X), Northing (UTM Y), Horizontal Accuracy Estimate (EPE / PDOP / FOM) 01 UTM X: <u>0349178</u> UTM Y: <u>4345381</u> +/- <u>6.4</u> (meters) 11 UTM X: <u>0349131</u> UTM Y: <u>4345182</u> +/- <u>6.4</u> (meters) Average Stream Width: <u>7</u> (meters) Length of Survey Segment: <u>150</u> (meters) (To determine Length of Reach) (20x average stream width) Field Staff: <u>Larissa Brown</u> and <u>Gilisa Gould</u>																Dissolved Oxygen						
																Date: <u>10.23.07</u> Time: <u>9:00</u> Dissolved Oxygen: <u>5.1</u> (mg/L) Dissolved Oxygen: _____ (% sat) Specific Cond: _____ (µS/cm) Water Temperature: <u>10.3</u> (°C)						
Transect Cross-Section																						
01		02		03		04		05		06		07		08		09		10		11		
Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
1	0.6	0.05	0.8	0.01	0.6	0.05	0.7	0.05	0.8	0.05	0.8	0.05	0.4	0.05	0.7	0.65	0.5	0.05	0.4	0.01	0.6	0.05
2	1.2	0.15	1.6	0.05	1.2	0.15	1.4	0.10	1.6	0.10	1.6	0.25	0.8	0.40	1.4	0.80	1.0	0.15	0.8	0.15	1.2	0.20
3	1.8	0.25	2.4	0.15	1.8	0.10	2.1	0.05	2.4	0.20	2.4	0.55	1.2	0.45	2.1	1.00	1.5	0.30	1.2	0.30	1.8	0.25
4	2.4	0.15	3.2	0.20	2.4	0.05	2.8	0.10	3.2	0.40	3.2	0.65	1.6	0.40	2.8	1.00	2.0	0.35	1.6	0.45	2.4	0.25
5	3.0	0.45	4.0	0.45	3.0	0.10	3.5	0.10	4.0	0.45	4.0	0.70	2.0	0.35	3.5	1.00	2.5	0.30	2.0	0.45	3.0	0.35
6	3.6	0.30	4.8	0.75	3.6	0.05	4.2	0.15	4.8	0.45	4.8	0.65	2.4	0.25	4.2	1.00	3.0	0.30	2.4	0.40	3.6	0.20
7	4.2	0.20	5.6	0.70	4.2	0.05	4.9	0.10	5.6	0.35	5.6	0.50	2.8	0.20	4.9	0.80	3.5	0.30	2.8	0.25	4.2	0.20
8	4.8	0.10	6.4	0.60	4.8	0.05	5.6	0.05	6.4	0.15	6.4	0.25	3.2	0.10	5.6	0.75	4.0	0.25	3.2	0.15	4.8	0.25
9	5.4	0.05	7.2	0.40	5.4	0.05	6.3	0.01	7.2	0.05	7.2	0.05	3.6	0.05	6.3	0.30	4.5	0.10	3.6	0.05	5.4	0.10
Right Bank	6.0	0.00	8.0	0.00	6.0	0.00	7.0	0.00	8.0	0.00	8.0	0.00	4.0	0.00	7.0	0.00	5.0	0.00	4.0	0.00	6.0	0.00
Feature Type (riffle, run, or pool)	pool		pool		riffle		riffle		pool		pool		pool		pool		pool		pool		pool	

Notes: Transects will be measured beginning on left descending bank (0 depth) and finishing on right descending bank (0 depth). This width is the wetted width

GPS locations corresponds to Transect 01 and 11. Transects ordered in upstream to downstream order.

Depth measurements taken at 10 equally spaced locations along transect (determine by dividing wetted width by ten)

Mark dry depth measurements as 0; record actual measurements to 0.01 meter unless depth is too deep to measure (then record as > 1)

All measurements to be taken to the nearest 0.01 meter.

Signed: Gilisa Gould Date: 11.01.07

WBID # 276
 Site # 2

Field Data Sheets For Recreational Use Stream Surveys

Data Sheet B-Site Characterization

Date & Time: 10.23.07	9:45	Site Location Description (e.g. road crossing):
Personnel: Larissa Brown and Gilisa Gould		Road 76
Current Weather Conditions: clear		Facility Name: Platte County Regional SE
Weather conditions for the past 10 days: 4.65 inches		Permit Number: MO 0119474
Drought conditions?: No drought <input checked="" type="checkbox"/> ; Phase I <input type="checkbox"/> ; Phase II <input type="checkbox"/> ; Phase III <input type="checkbox"/> ; Phase IV <input type="checkbox"/> ; Unknown <input type="checkbox"/>		

Site Location:

Location Coordinates (Universal Transverse Mercator Projection, In Meters)					
Site 01	Easting (UTM X):	Northing (UTM Y):	Horizontal Accuracy:	Meters	
	0348482	4344610	6.4		
Site 11	Easting (UTM X):	Northing (UTM Y):	Horizontal Accuracy:	Meters	
	0348439	4344397	7.3		

Photos:

Photo ID#	Photo Purpose	Photo ID#:	Photo Purpose	Photo ID#:	Photo Purpose
5	downstream, T1	6	upstream, T1	7	downstream, T11
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
8	upstream, T11				
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose

Uses Observed:

<input type="checkbox"/> Swimming	<input type="checkbox"/> Skin diving	<input type="checkbox"/> SCUBA diving	<input type="checkbox"/> Tubing	<input type="checkbox"/> Water Skiing
<input type="checkbox"/> Wind surfing	<input type="checkbox"/> Kayaking	<input type="checkbox"/> Boating	<input type="checkbox"/> Wading	<input type="checkbox"/> Rafting
<input type="checkbox"/> Hunting	<input type="checkbox"/> Trapping	<input type="checkbox"/> Fishing	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:
Describe:				

WBID # 276
Site # 2

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B- Site Characterization (Continued)

Surrounding Conditions:

<input type="checkbox"/> City/County parks	<input type="checkbox"/> playgrounds	<input type="checkbox"/> MDC conservation lands	<input type="checkbox"/> Urban areas	<input checked="" type="checkbox"/> Rural Residential
<input type="checkbox"/> Campgrounds	<input type="checkbox"/> State parks	<input type="checkbox"/> National Forests	<input type="checkbox"/> Nature trails	<input type="checkbox"/> Stairs/walkways
<input type="checkbox"/> Boating accesses	<input type="checkbox"/> Fence	<input type="checkbox"/> No trespass sign	<input type="checkbox"/> Steep Slopes	<input type="checkbox"/> Other:
Comments: none				

Evidence of Human Use:

<input type="checkbox"/> Roads	<input type="checkbox"/> Foot path/prints	<input type="checkbox"/> Dock/platform	<input type="checkbox"/> Camping Sites	<input type="checkbox"/> Rope swings
<input type="checkbox"/> RV/ATV Tracks	<input type="checkbox"/> Fire pit/ring	<input type="checkbox"/> NPDES Discharge	<input type="checkbox"/> Fishing Tackle	<input type="checkbox"/> Livestock watering
comments/other: none				

Substrate:

% Cobble 50	% Gravel 20	% Sand 30	% Silt	% Mud/Clay	% Bedrock
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Aquatic Vegetation:

none

Water Characteristics:

Odor:	<input type="checkbox"/> Sewage	<input type="checkbox"/> Musky	<input type="checkbox"/> Chemical	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Color:	<input type="checkbox"/> Clear	<input type="checkbox"/> Green	<input type="checkbox"/> Gray	<input type="checkbox"/> Milky	<input checked="" type="checkbox"/> Other: brown
Bottom Deposit:	<input type="checkbox"/> Sludge	<input type="checkbox"/> Solids	<input type="checkbox"/> Fine sediments	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Surface Deposit:	<input type="checkbox"/> Oil	<input type="checkbox"/> Scum	<input type="checkbox"/> Foam	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:

WBID # 276
Site # 2

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization (continued)

Additional Stream Morphology: (Record isolated pools or other features identified during the survey that may support recreational uses)

Channel Feature	Distance from access location (m)	Width (m)	Length (m)	Median Depth (m)	Max Depth (m)

Comments: (Please record any additional comments here.)

none

Please verify that you have completed all sections, checked all applicable boxes, and that the form is complete.

Surveyor's Signature: gilisa gould Date of Survey: 10.23.07

Organization: SES, Inc. Position: field team leader

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet C - Field Survey Results

Waterbody ID: <u>276</u> Site #: <u>2</u> Estimated Channel Incision: <u>4.0</u> (m) (height between low bank width and water) GPS Location - Easting (UTM X), Northing (UTM Y), Horizontal Accuracy Estimate (EPE / PDOP / FOM) 01 UTM X: <u>0348482</u> UTM Y: <u>4344610</u> +/- <u>6.4</u> (meters) 11 UTM X: <u>0348439</u> UTM Y: <u>4344397</u> +/- <u>7.3</u> (meters) Average Stream Width: <u>6</u> (meters) Length of Survey Segment: <u>150</u> (meters) (To determine Length of Reach) (20x average stream width) Field Staff: <u>Larissa Brown</u> and <u>Gilisa Gould</u>	Dissolved Oxygen Date: <u>10.23.07</u> Time: <u>9:45</u> Dissolved Oxygen: <u>2.5</u> (mg/L) Dissolved Oxygen: _____ (% sat) Specific Cond: _____ (µS/cm) Water Temperature: <u>9.8</u> (°C)
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Transect Cross-Section

Station	01		02		03		04		05		06		07		08		09		10		11	
	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)
Left Bank	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0.5	0.05	0.6	0.05	0.7	0.30	0.6	0.05	0.6	0.15	0.7	0.50	0.5	0.05	0.7	0.05	1.0	0.10	0.7	0.10	0.7	0.10
2	1.0	0.20	1.2	0.10	1.4	0.50	1.2	0.05	1.2	0.55	1.4	0.75	1.0	0.20	1.4	0.45	2.0	0.10	1.4	0.30	1.4	0.01
3	1.5	0.30	1.8	0.10	2.1	0.60	1.8	0.10	1.8	0.55	2.1	1.00	1.5	0.25	2.1	0.50	3.0	0.15	2.1	0.30	2.1	0.00
4	2.0	0.35	2.4	0.15	2.8	0.60	2.4	0.05	2.4	0.60	2.8	1.00	2.0	0.25	2.8	0.45	4.0	0.01	2.8	0.05	2.8	0.00
5	2.5	0.30	3.0	0.20	3.5	0.60	3.0	0.05	3.0	0.50	3.5	1.00	2.5	0.25	3.5	0.40	5.0	0.00	3.5	0.00	3.5	0.05
6	3.0	0.30	3.6	0.20	4.2	0.45	3.6	0.01	3.6	0.35	4.2	1.00	3.0	0.15	4.2	0.30	6.0	0.00	4.2	0.20	4.2	0.15
7	3.5	0.40	4.2	0.15	4.9	0.35	4.2	0.15	4.2	0.30	4.9	1.00	3.5	0.10	4.9	0.40	7.0	0.00	4.9	0.20	4.9	0.15
8	4.0	0.15	4.8	0.10	5.6	0.25	4.8	0.15	4.8	0.25	5.6	0.65	4.0	0.10	5.6	0.25	8.0	0.01	5.6	0.25	5.6	0.15
9	4.5	0.15	5.4	0.05	6.3	0.05	5.4	0.05	5.4	0.05	6.3	0.25	4.5	0.05	6.3	0.10	9.0	0.10	6.3	0.10	6.3	0.05
Right Bank	5.0	0.00	6.0	0.00	7.0	0.00	6.0	0.00	6.0	0.00	7.0	0.00	5.0	0.00	7.0	0.00	10.0	0.00	7.0	0.00	7.0	0.00
Feature Type	pool		pool		pool		riffle		pool		pool		pool		pool		pool		pool		riffle	

Notes: Transects will be measured beginning on left descending bank (0 depth) and finishing on right descending bank (0 depth). This width is the wetted width

GPS locations corresponds to Transect 01 and 11. Transects ordered in upstream to downstream order.

Depth measurements taken at 10 equally spaced locations along transect (determine by dividing wetted width by ten)

Mark dry depth measurements as 0; record actual measurements to 0.01 meter unless depth is too deep to measure (then record as > 1)

All measurements to be taken to the nearest 0.01 meter.

Signed: gilisa gould Date: 11.01.07

WBID # 276
 Site # 3

Field Data Sheets For Recreational Use Stream Surveys

Data Sheet B-Site Characterization

Date & Time: 10.23.07	10:20	Site Location Description (e.g. road crossing):
Personnel: Larissa Brown and Gilisa Gould	64th Street	
Current Weather Conditions: clear	Facility Name:	Platte County Regional SE
Weather conditions for the past 10 days: 4.65 inches	Permit Number:	MO 0119474
Drought conditions?: No drought <input checked="" type="checkbox"/> ; Phase I <input type="checkbox"/> ; Phase II <input type="checkbox"/> ; Phase III <input type="checkbox"/> ; Phase IV <input type="checkbox"/> ; Unknown <input type="checkbox"/>		

Site Location:

Location Coordinates (Universal Transverse Mercator Projection, in Meters)					
Site 01	Easting (UTM X):	Northing (UTM Y):	Horizontal Accuracy:	Meters	
	0348128	4343207		13.1	
Site 11	Easting (UTM X):	Northing (UTM Y):	Horizontal Accuracy:	Meters	
	0348119	4342995		4.9	

Photos:

Photo ID#	Photo Purpose	Photo ID#:	Photo Purpose	Photo ID#:	Photo Purpose
9	downstream, T1	10	upstream, T1	11	downstream, T11
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
12	upstream, T11	13	construction		
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose

Uses Observed:

<input type="checkbox"/> Swimming	<input type="checkbox"/> Skin diving	<input type="checkbox"/> SCUBA diving	<input type="checkbox"/> Tubing	<input type="checkbox"/> Water Skiing
<input type="checkbox"/> Wind surfing	<input type="checkbox"/> Kayaking	<input type="checkbox"/> Boating	<input type="checkbox"/> Wading	<input type="checkbox"/> Rafting
<input type="checkbox"/> Hunting	<input type="checkbox"/> Trapping	<input type="checkbox"/> Fishing	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:
Describe:				

WBID # 276
 Site # 3

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B- Site Characterization (Continued)

Surrounding Conditions:

<input type="checkbox"/> City/County parks	<input type="checkbox"/> playgrounds	<input type="checkbox"/> MDC conservation lands	<input type="checkbox"/> Urban areas	<input type="checkbox"/> Rural Residential
<input type="checkbox"/> Campgrounds	<input type="checkbox"/> State parks	<input type="checkbox"/> National Forests	<input type="checkbox"/> Nature trails	<input type="checkbox"/> Stairs/walkways
<input type="checkbox"/> Boating accesses	<input checked="" type="checkbox"/> Fence	<input type="checkbox"/> No trespass sign	<input type="checkbox"/> Steep Slopes	<input checked="" type="checkbox"/> Other:
Comments: construction on creek banks				

Evidence of Human Use:

<input type="checkbox"/> Roads	<input type="checkbox"/> Foot path/prints	<input type="checkbox"/> Dock/platform	<input type="checkbox"/> Camping Sites	<input type="checkbox"/> Rope swings
<input type="checkbox"/> RV/ATV Tracks	<input type="checkbox"/> Fire pit/ring	<input type="checkbox"/> NPDES Discharge	<input type="checkbox"/> Fishing Tackle	<input type="checkbox"/> Livestock watering
comments/other: none				

Substrate:

% Cobble	% Gravel	% Sand	% Silt	% Mud/Clay	% Bedrock
40	30	30			

Aquatic Vegetation:

none

Water Characteristics:

Odor:	<input type="checkbox"/> Sewage	<input type="checkbox"/> Musky	<input type="checkbox"/> Chemical	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Color:	<input type="checkbox"/> Clear	<input type="checkbox"/> Green	<input type="checkbox"/> Gray	<input type="checkbox"/> Milky	<input checked="" type="checkbox"/> Other:
					brown
Bottom Deposit:	<input type="checkbox"/> Sludge	<input type="checkbox"/> Solids	<input type="checkbox"/> Fine sediments	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Surface Deposit:	<input type="checkbox"/> Oil	<input type="checkbox"/> Scum	<input type="checkbox"/> Foam	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:

WBID # 276
Site # 3

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization (continued)

Additional Stream Morphology: (Record isolated pools or other features identified during the survey that may support recreational uses)

Channel Feature	Distance from access location (m)	Width (m)	Length (m)	Median Depth (m)	Max Depth (m)

Comments: (Please record any additional comments here.)

none

Please verify that you have completed all sections, checked all applicable boxes, and that the form is complete.

Surveyor's Signature: gilisa gould Date of Survey: 10.23.07

Organization: SES, Inc. Position: field team leader

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet C - Field Survey Results

Waterbody ID: <u>276</u> Site #: <u>3</u> Estimated Channel Incision: <u>3.0</u> (m) (height between low bank width and water) GPS Location - Easting (UTM X), Northing (UTM Y), Horizontal Accuracy Estimate (EPE / PDOP / FOM) 01 UTM X: <u>0348128</u> UTM Y: <u>4343207</u> +/- <u>13.1</u> (meters) 11 UTM X: <u>0344819</u> UTM Y: <u>4342995</u> +/- <u>4.9</u> (meters) Average Stream Width: <u>8</u> (meters) Length of Survey Segment: <u>160</u> (meters) (To determine Length of Reach) (20x average stream width) Field Staff: <u>Larissa Brown</u> and <u>Gilisa Gould</u>	Dissolved Oxygen Date: <u>10.23.07</u> Time: <u>10:20</u> Dissolved Oxygen: <u>2.4</u> (mg/L) Dissolved Oxygen: _____ (% sat) Specific Cond: _____ (µS/cm) Water Temperature: <u>9.7</u> (°C)
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Transect Cross-Section

Station	01		02		03		04		05		06		07		08		09		10		11	
	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)
Left Bank	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0.5	0.01	0.9	0.15	0.5	0.10	0.6	0.25	0.8	0.05	0.8	0.10	0.8	0.10	0.6	0.10	0.8	0.90	0.7	0.10	1.0	0.15
2	1.0	0.10	1.8	0.60	1.0	0.10	1.2	0.40	1.6	0.05	1.6	0.30	1.6	0.50	1.2	0.25	1.6	1.00	1.4	0.55	2.0	0.50
3	1.5	0.05	2.7	0.70	1.5	0.20	1.8	0.55	2.4	0.35	2.4	0.30	2.4	0.60	1.8	0.35	2.4	1.00	2.1	0.60	3.0	0.60
4	2.0	0.20	3.6	0.85	2.0	0.00	2.4	0.60	3.2	0.75	3.2	0.25	3.2	0.55	2.4	0.35	3.2	1.00	2.8	0.60	4.0	0.45
5	2.5	0.25	4.5	0.75	2.5	0.15	3.0	0.70	4.0	1.00	4.0	0.25	4.0	0.50	3.0	0.35	4.0	1.00	3.5	0.45	5.0	0.00
6	3.0	0.30	5.4	0.50	3.0	0.15	3.6	0.65	4.8	1.00	4.8	0.25	4.8	0.40	3.6	0.25	4.8	0.60	4.2	0.30	6.0	0.20
7	3.5	0.10	6.3	0.40	3.5	0.10	4.2	0.50	5.6	0.10	5.6	0.35	5.6	0.30	4.2	0.15	5.6	0.30	4.9	0.30	7.0	0.30
8	4.0	0.15	7.2	0.40	4.0	0.15	4.8	0.30	6.4	0.10	6.4	0.40	6.4	0.30	4.8	0.10	6.4	0.10	5.6	0.30	8.0	0.20
9	4.5	0.15	8.1	0.15	4.5	0.05	5.4	0.15	7.2	0.10	7.2	0.15	7.2	0.15	5.4	0.01	7.2	0.05	6.3	0.10	9.0	0.05
Right Bank	5.0	0.00	9.0	0.00	5.0	0.00	6.0	0.00	8.0	0.00	8.0	0.00	8.0	0.00	6.0	0.00	8.0	0.00	7.0	0.00	10.0	0.00
Feature Type	riffle		pool		riffle		pool		pool		pool		pool		pool		pool		pool		pool	

Notes: Transects will be measured beginning on left descending bank (0 depth) and finishing on right descending bank (0 depth). This width is the wetted width

GPS locations corresponds to Transect 01 and 11. Transects ordered in upstream to downstream order.

Depth measurements taken at 10 equally spaced locations along transect (determine by dividing wetted width by ten)

Mark dry depth measurements as 0; record actual measurements to 0.01 meter unless depth is too deep to measure (then record as > 1)

All measurements to be taken to the nearest 0.01 meter.

Signed: gilisa gould Date: 11.01.07

WBID # 276
 Site # 4

Field Data Sheets For Recreational Use Stream Surveys

Data Sheet B-Site Characterization

Date & Time: 10.23.07	11:45	Site Location Description (e.g. road crossing):
Personnel: Larissa Brown and Gilisa Gould		Off of I-435
Current Weather Conditions: clear		Facility Name: Platte County Regional SE
Weather conditions for the past 10 days: 4.65 inches		Permit Number: MO 0119474
Drought conditions?: No drought <input checked="" type="checkbox"/> ; Phase I <input type="checkbox"/> ; Phase II <input type="checkbox"/> ; Phase III <input type="checkbox"/> ; Phase IV <input type="checkbox"/> ; Unknown <input type="checkbox"/>		

Site Location:

Location Coordinates (Universal Transverse Mercator Projection, In Meters)				
Site 01	Easting (UTM X):	Northing (UTM Y):	Horizontal Accuracy:	Meters
	0348099	4341245		5.5
Site 11	Easting (UTM X):	Northing (UTM Y):	Horizontal Accuracy:	Meters
	0348033	4341109		3.4

Photos:

Photo ID#	Photo Purpose	Photo ID#:	Photo Purpose	Photo ID#:	Photo Purpose
14	downtown, T11	15	upstream, T11	16	downstream, T1
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
17	upstream, T1				
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose

Uses Observed:

<input type="checkbox"/> Swimming	<input type="checkbox"/> Skin diving	<input type="checkbox"/> SCUBA diving	<input type="checkbox"/> Tubing	<input type="checkbox"/> Water Skiing
<input type="checkbox"/> Wind surfing	<input type="checkbox"/> Kayaking	<input type="checkbox"/> Boating	<input type="checkbox"/> Wading	<input type="checkbox"/> Rafting
<input type="checkbox"/> Hunting	<input type="checkbox"/> Trapping	<input type="checkbox"/> Fishing	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:
Describe:				

WBID # 276
 Site # 4

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B- Site Characterization (Continued)

Surrounding Conditions:

<input type="checkbox"/> City/County parks	<input type="checkbox"/> playgrounds	<input type="checkbox"/> MDC conservation lands	<input type="checkbox"/> Urban areas	<input type="checkbox"/> Rural Residential
<input type="checkbox"/> Campgrounds	<input type="checkbox"/> State parks	<input type="checkbox"/> National Forests	<input type="checkbox"/> Nature trails	<input type="checkbox"/> Stairs/walkways
<input type="checkbox"/> Boating accesses	<input checked="" type="checkbox"/> Fence	<input type="checkbox"/> No trespass sign	<input type="checkbox"/> Steep Slopes	<input type="checkbox"/> Other:
Comments: none				

Evidence of Human Use:

<input type="checkbox"/> Roads	<input type="checkbox"/> Foot path/prints	<input type="checkbox"/> Dock/platform	<input type="checkbox"/> Camping Sites	<input type="checkbox"/> Rope swings
<input type="checkbox"/> RV/ATV Tracks	<input type="checkbox"/> Fire pit/ring	<input type="checkbox"/> NPDES Discharge	<input type="checkbox"/> Fishing Tackle	<input type="checkbox"/> Livestock watering
comments/other: none				

Substrate:

% Cobble	% Gravel	% Sand	% Silt	% Mud/Clay	% Bedrock
	30	40	10	10	10

Aquatic Vegetation:

none

Water Characteristics:

Odor:	<input type="checkbox"/> Sewage	<input type="checkbox"/> Musky	<input type="checkbox"/> Chemical	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Color:	<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Green	<input type="checkbox"/> Gray	<input type="checkbox"/> Milky	<input checked="" type="checkbox"/> Other:
					brown
Bottom Deposit:	<input type="checkbox"/> Sludge	<input type="checkbox"/> Solids	<input type="checkbox"/> Fine sediments	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Surface Deposit:	<input type="checkbox"/> Oil	<input type="checkbox"/> Scum	<input type="checkbox"/> Foam	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:

WBID # 276
Site # 4

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization (continued)

Additional Stream Morphology: (Record isolated pools or other features identified during the survey that may support recreational uses)

Channel Feature	Distance from access location (m)	Width (m)	Length (m)	Median Depth (m)	Max Depth (m)

Comments: (Please record any additional comments here.)

none

Please verify that you have completed all sections, checked all applicable boxes, and that the form is complete.

Surveyor's Signature: gilisa gould Date of Survey: 10.23.07

Organization: SES, Inc. Position: field team leader

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet C - Field Survey Results

Waterbody ID: <u>276</u> Site #: <u>4</u> Estimated Channel Incision: <u>4.0</u> (m) (height between low bank width and water) GPS Location - Easting (UTM X), Northing (UTM Y), Horizontal Accuracy Estimate (EPE / PDOP / FOM) 01 UTM X: <u>0348099</u> UTM Y: <u>4341245</u> +/- <u>5.5</u> (meters) 11 UTM X: <u>0348033</u> UTM Y: <u>4341109</u> +/- <u>3.4</u> (meters) Average Stream Width: <u>7</u> (meters) Length of Survey Segment: <u>150</u> (meters) (To determine Length of Reach) (20x average stream width) Field Staff: <u>Larissa Brown</u> and <u>Gilisa Gould</u>	Dissolved Oxygen Date: <u>10.23.07</u> Time: <u>11:45</u> Dissolved Oxygen: <u>2.5</u> (mg/L) Dissolved Oxygen: _____ (% sat) Specific Cond: _____ (µS/cm) Water Temperature: <u>12.2</u> (°C)
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Transect Cross-Section

Station	01		02		03		04		05		06		07		08		09		10		11	
	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)
Left Bank	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	1.0	0.05	0.8	0.15	0.7	0.95	0.7	0.15	0.8	0.35	0.6	0.05	0.5	0.05	0.6	0.05	0.6	0.05	0.6	0.05	0.5	0.05
2	2.0	0.35	1.6	0.30	1.4	1.00	1.4	0.30	1.6	0.55	1.2	1.00	1.0	0.15	1.2	0.10	1.2	0.30	1.2	0.20	1.0	0.20
3	3.0	0.35	2.4	0.30	2.1	1.00	2.1	0.30	2.4	0.65	1.8	0.15	1.5	0.20	1.8	0.05	1.8	0.40	1.8	0.15	1.5	0.40
4	4.0	0.50	3.2	0.40	2.8	1.00	2.8	0.30	3.2	0.60	2.4	0.20	2.0	0.20	2.4	0.10	2.4	0.30	2.4	0.20	2.0	0.50
5	5.0	0.60	4.0	0.55	3.5	1.00	3.5	0.30	4.0	0.90	3.0	0.15	2.5	0.15	3.0	0.20	3.0	0.30	3.0	0.10	2.5	0.55
6	6.0	0.80	4.8	0.50	4.2	1.00	4.2	0.20	4.8	0.65	3.6	0.15	3.0	0.20	3.6	0.20	3.6	0.20	3.6	0.15	3.0	0.30
7	7.0	0.90	5.6	0.35	4.9	1.00	4.9	0.15	5.6	0.70	4.2	0.05	3.5	0.15	4.2	0.05	4.2	0.15	4.2	0.15	3.5	0.20
8	8.0	0.75	6.4	0.40	5.6	0.70	5.6	0.10	6.4	0.40	4.8	0.01	4.0	0.10	4.8	0.01	4.8	0.10	4.8	0.15	4.0	0.15
9	9.0	0.15	7.2	0.15	6.3	0.15	6.3	0.20	7.2	0.30	5.4	0.01	4.5	0.01	5.4	0.01	5.4	0.01	5.4	0.10	4.5	0.01
Right Bank	10.0	0.00	8.0	0.00	7.0	0.00	7.0	0.00	8.0	0.00	6.0	0.00	5.0	0.00	6.0	0.00	6.0	0.00	6.0	0.00	5.0	0.00
Feature Type	pool		pool		pool		pool		pool		riffle		riffle		riffle		run		riffle		pool	

Notes: Transects will be measured beginning on left descending bank (0 depth) and finishing on right descending bank (0 depth). This width is the wetted width

GPS locations corresponds to Transect 01 and 11. Transects ordered in upstream to downstream order.

Depth measurements taken at 10 equally spaced locations along transect (determine by dividing wetted width by ten)

Mark dry depth measurements as 0; record actual measurements to 0.01 meter unless depth is too deep to measure (then record as > 1)

All measurements to be taken to the nearest 0.01 meter.

Signed: gilisa gould Date: 11.01.07

WBID # 276
 Site # 5

Field Data Sheets For Recreational Use Stream Surveys

Data Sheet B-Site Characterization

Date & Time: 10.23.07 12:30	Site Location Description (e.g. road crossing):
Personnel: Larissa Brown and Gilisa Gould	River Rd
Current Weather Conditions: clear	Facility Name: Platte County Regional SE
Weather conditions for the past 10 days: 4.65 inches	Permit Number: MO 0119474
Drought conditions?: No drought <input checked="" type="checkbox"/> ; Phase I <input type="checkbox"/> ; Phase II <input type="checkbox"/> ; Phase III <input type="checkbox"/> ; Phase IV <input type="checkbox"/> ; Unknown <input type="checkbox"/>	

Site Location:

Location Coordinates (Universal Transverse Mercator Projection, In Meters)					
Site 01	Easting (UTM X):	Northing (UTM Y):	Horizontal Accuracy:	Meters	
	0348061	4339810		6.1	
Site 11	Easting (UTM X):	Northing (UTM Y):	Horizontal Accuracy:	Meters	
	0348050	4339664		5.2	

Photos:

Photo ID#	Photo Purpose	Photo ID#:	Photo Purpose	Photo ID#:	Photo Purpose
18	downstream, T1	19	upstream, T1	20	downstream, T11
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose
21	upstream, T11				
Photo ID#	Photo Purpose	Photo ID#	Photo Purpose	Photo ID#	Photo Purpose

Uses Observed:

<input type="checkbox"/> Swimming	<input type="checkbox"/> Skin diving	<input type="checkbox"/> SCUBA diving	<input type="checkbox"/> Tubing	<input type="checkbox"/> Water Skiing
<input type="checkbox"/> Wind surfing	<input type="checkbox"/> Kayaking	<input type="checkbox"/> Boating	<input type="checkbox"/> Wading	<input type="checkbox"/> Rafting
<input type="checkbox"/> Hunting	<input type="checkbox"/> Trapping	<input type="checkbox"/> Fishing	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:
Describe:				

WBID # 276
 Site # 5

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B- Site Characterization (Continued)

Surrounding Conditions:

<input type="checkbox"/> City/County parks	<input type="checkbox"/> playgrounds	<input type="checkbox"/> MDC conservation lands	<input type="checkbox"/> Urban areas	<input type="checkbox"/> Rural Residential
<input type="checkbox"/> Campgrounds	<input type="checkbox"/> State parks	<input type="checkbox"/> National Forests	<input type="checkbox"/> Nature trails	<input type="checkbox"/> Stairs/walkways
<input type="checkbox"/> Boating accesses	<input type="checkbox"/> Fence	<input type="checkbox"/> No trespass sign	<input type="checkbox"/> Steep Slopes	<input checked="" type="checkbox"/> Other:
Comments: railroad tracks				

Evidence of Human Use:

<input type="checkbox"/> Roads	<input type="checkbox"/> Foot path/prints	<input type="checkbox"/> Dock/platform	<input type="checkbox"/> Camping Sites	<input type="checkbox"/> Rope swings
<input type="checkbox"/> RV/ATV Tracks	<input type="checkbox"/> Fire pit/ring	<input type="checkbox"/> NPDES Discharge	<input type="checkbox"/> Fishing Tackle	<input type="checkbox"/> Livestock watering
comments/other: none				

Substrate:

% Cobble	% Gravel	% Sand	% Silt	% Mud/Clay	% Bedrock
	40	30	10	20	

Aquatic Vegetation:

none

Water Characteristics:

Odor:	<input type="checkbox"/> Sewage	<input type="checkbox"/> Musky	<input type="checkbox"/> Chemical	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Color:	<input type="checkbox"/> Clear	<input type="checkbox"/> Green	<input type="checkbox"/> Gray	<input type="checkbox"/> Milky	<input checked="" type="checkbox"/> Other:
					brown
Bottom Deposit:	<input type="checkbox"/> Sludge	<input type="checkbox"/> Solids	<input type="checkbox"/> Fine sediments	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Surface Deposit:	<input type="checkbox"/> Oil	<input type="checkbox"/> Scum	<input type="checkbox"/> Foam	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:

WBID # 276
Site # 5

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization (continued)

Additional Stream Morphology: (Record isolated pools or other features identified during the survey that may support recreational uses)

Channel Feature	Distance from access location (m)	Width (m)	Length (m)	Median Depth (m)	Max Depth (m)

Comments: (Please record any additional comments here.)

none

Please verify that you have completed all sections, checked all applicable boxes, and that the form is complete.

Surveyor's Signature: gilisa gould Date of Survey: 10.23.07

Organization: SES, Inc. Position: Field Team Leader

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet C - Field Survey Results

Waterbody ID: <u>276</u> Site #: <u>5</u> Estimated Channel Incision: <u>3.0</u> (m) (height between low bank width and water) GPS Location - Easting (UTM X), Northing (UTM Y), Horizontal Accuracy Estimate (EPE / PDOP / FOM) 01 UTM X: <u>0348061</u> UTM Y: <u>4339810</u> +/- <u>6.1</u> (meters) 11 UTM X: <u>0348050</u> UTM Y: <u>4339664</u> +/- <u>5.2</u> (meters) Average Stream Width: <u>8</u> (meters) Length of Survey Segment: <u>160</u> (meters) (To determine Length of Reach) (20x average stream width) Field Staff: <u>Larissa Brown</u> and <u>Gilisa Gould</u>	Dissolved Oxygen Date: <u>10.23.07</u> Time: <u>12:30</u> Dissolved Oxygen: <u>5</u> (mg/L) Dissolved Oxygen: _____ (% sat) Specific Cond: _____ (µS/cm) Water Temperature: <u>12.5</u> (°C)
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Transect Cross-Section

Station	01		02		03		04		05		06		07		08		09		10		11	
	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)
Left Bank	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0.7	0.05	0.7	0.05	0.8	0.05	0.9	0.80	0.8	0.05	0.7	0.15	0.8	0.20	0.7	0.10	0.7	0.10	0.7	0.05	0.8	0.05
2	1.4	0.10	1.4	0.20	1.6	0.50	1.8	0.95	1.6	0.50	1.4	0.45	1.6	0.80	1.4	0.70	1.4	0.70	1.4	0.10	1.6	0.30
3	2.1	0.25	2.1	0.40	2.4	0.70	2.7	1.00	2.4	1.00	2.1	0.50	2.4	1.00	2.1	1.00	2.1	1.00	2.1	0.20	2.4	0.60
4	2.8	0.15	2.8	0.75	3.2	0.80	3.6	1.00	3.2	1.00	2.8	0.50	3.2	1.00	2.8	1.00	2.8	1.00	2.8	0.20	3.2	1.00
5	3.5	0.15	3.5	1.00	4.0	0.80	4.5	1.00	4.0	1.00	3.5	0.55	4.0	1.00	3.5	1.00	3.5	1.00	3.5	0.80	4.0	1.00
6	4.2	0.20	4.2	0.95	4.8	0.80	5.4	1.00	4.8	1.00	4.2	0.50	4.8	1.00	4.2	1.00	4.2	1.00	4.2	1.00	4.8	1.00
7	4.9	0.15	4.9	0.55	5.6	0.85	6.3	1.00	5.6	1.00	4.9	0.50	5.6	1.00	4.9	1.00	4.9	1.00	4.9	1.00	5.6	1.00
8	5.6	0.25	5.6	0.30	6.4	0.55	7.2	0.65	6.4	0.95	5.6	0.40	6.4	0.65	5.6	0.90	5.6	0.70	5.6	1.00	6.4	0.80
9	6.3	0.10	6.3	0.20	7.2	0.35	8.1	0.10	7.2	0.60	6.3	0.10	7.2	0.40	6.3	0.30	6.3	0.20	6.3	0.90	7.2	0.40
Right Bank	7.0	0.00	7.0	0.00	8.0	0.00	9.0	0.00	8.0	0.00	7.0	0.00	8.0	0.00	7.0	0.00	7.0	0.00	7.0	0.00	8.0	0.00
Feature Type (riffle, run, or pool)	riffle		pool		pool		pool		pool		pool		pool		pool		pool		pool		pool	

Notes: Transects will be measured beginning on left descending bank (0 depth) and finishing on right descending bank (0 depth). This width is the wetted width

GPS locations corresponds to Transect 01 and 11. Transects ordered in upstream to downstream order.

Depth measurements taken at 10 equally spaced locations along transect (determine by dividing wetted width by ten)

Mark dry depth measurements as 0; record actual measurements to 0.01 meter unless depth is too deep to measure (then record as > 1)

All measurements to be taken to the nearest 0.01 meter.

Signed: gilisa gould Date: 11.01.07

WBID# 0276



Site# 1 Photo ID# 1, Downstream T-1



Site# 1 Photo ID# 2, Upstream T-1



Site# 1 Photo ID# 3, Downstream T-11



Site# 1 Photo ID# 4, Upstream T-11

WBID# 0276



Site# 2 Photo ID# 5, Downstream T-1



Site# 2 Photo ID# 6, Upstream T-1



Site# 2 Photo ID# 7, Downstream T-11



Site# 2 Photo ID# 8, Upstream T-11

WBID# 0276



Site# 3 Photo ID# 9, Downstream T-1



Site# 3 Photo ID# 10, Upstream T-1



Site# 3 Photo ID# 11, Downstream T-11



Site# 3 Photo ID# 12, Upstream T-11

WBID# 0276



Site# 3 Photo ID# 13, Construction



Site# 4 Photo ID# 14, Downstream T-11



Site# 4 Photo ID# 15, Upstream T-11



Site# 4 Photo ID# 16, Downstream T-1

WBID# 0276



Site# 4 Photo ID# 17, Upstream T-1



Site# 5 Photo ID# 18, Downstream T-1



Site# 5 Photo ID# 19, Upstream T-1



Site# 5 Photo ID# 20, Downstream T-11

WBID# 0276



Site# 5 Photo ID# 21, Upstream T-11